

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY SIGNAL WITH INTERSECTION LIGHTING FOR MAINTENANCE OF TRAFFIC AT THE INTERSECTION OF MD 2 (SOLOMON'S ISLAND ROAD) AT SOUTHDOWN ROAD IN ANNE ARUNDEL COUNTY. MD 2 IS ASSUMED TO RUN IN A N ORTH/SOUTH DIRECTION.

INTERSESECTION OPERATION

AN EIGHT (8) PHASE (FULLY ACTUATED) SYSTEM READY CONTROLLER WITH FOUR (4) RACK MOUNTED LOOP DETECTOR AMPLIFIERS HOUSES IN A SIZE SIX (6) BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS INTERSECTION. FOR THIS STAGE OF M.O.T., NORTHBOUND AND SOUTHBOUND MD 2 SHALL OPERATE CONCURRENTLY. EASTBOUND SOUTHDOWN ROAD SHALL OPERATE IN AN EXCLUSIVE PHASE. THE SIGNAL SHALL REST IN PHASE 2 AND 6.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TEMPORARY WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THIS PROJECT.

104.00-30
104.02-02
104.32-02

104.33-02
104.39-02
104.41-02

PROJECT CONTACTS:

MR. PAUL ARMSTRONG, DISTRICT ENGINEER
PHONE: (410) 841-5450
MR. JOHN WAYS, ASSIST. DISTRICT ENGINEER
UTILITIES
PHONE: (410) 841-5450
MR. LARRY ELLIOTT, ASSIST., DISTRICT ENGINEER-TRAFFIC
PHONE: (301) 841-5450

SHA, TRAFFIC SIGNAL SHOP
MR. EDWARD RODENHIZER, CHIEF
PHONE: (410) 787-7650

MR. RICHARD L. DAFF SR., CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

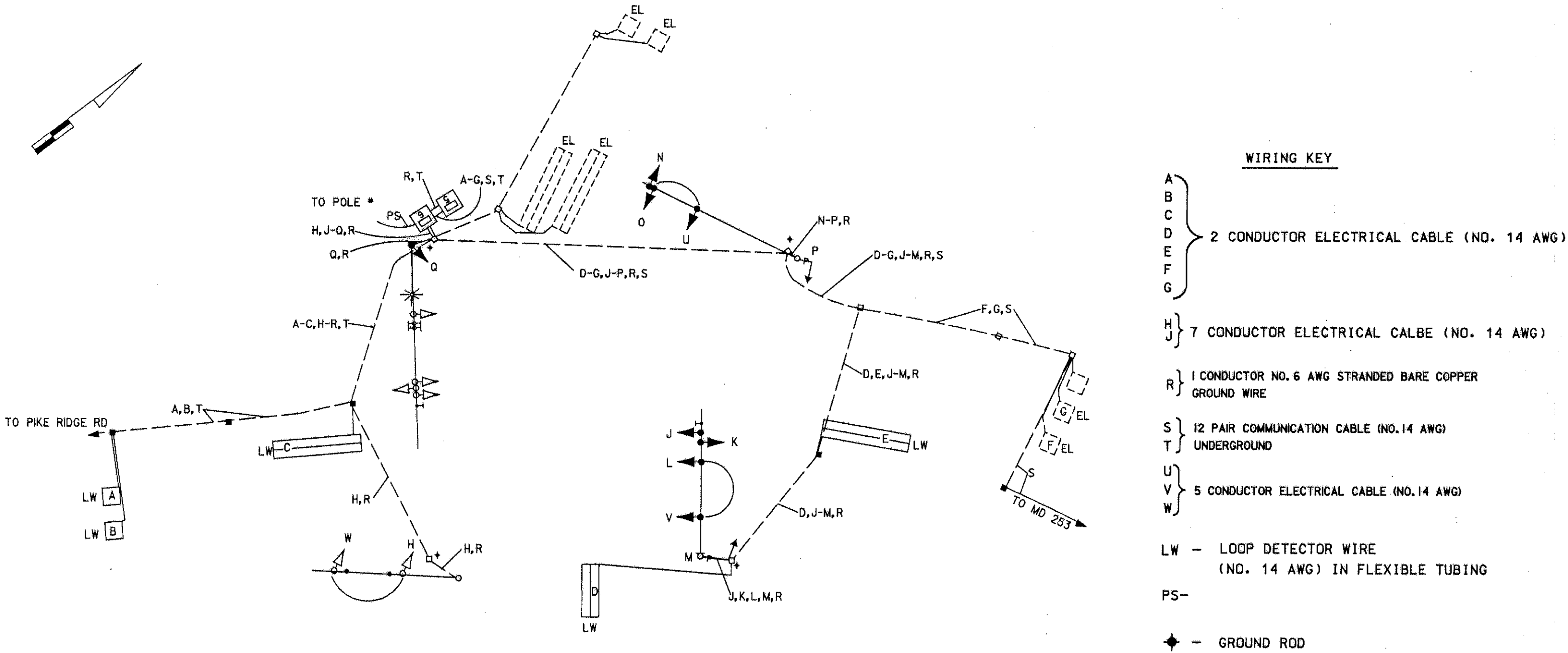
A. Equipment to be supplied by the Administration.

CATEGORY Code No.	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
973023	56	SF	813	Sheet aluminum signs consisting of:
	4	EA		D3-3 (VAR. X 16")
	2	EA		R4-7 (24" X 30")
	2	EA		R4-7 (18" X 30")
	1	EA		R3-5(L) (30" X 36")

B. Equipment to be furnished and /or installed by the Contractor.

CATEGORY Code No.	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
203030		CY	205	Test pit excavation
585144	300	LF	555	Furnish and install 24 in. white reflective thermoplastic pavement markings
805150	400	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit - slotted
805105	60	LF	805	Furnish and install 2 in. schedule 80 rigid PVC conduit - bored
805160	20	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve
861104	1000	LF	810	Furnish and install electrical cable - 2 conductor (aluminum shielded)
861107	60	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG)
861108	600	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG)
862101	610	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)
811001	4	EA	811	Furnish and install electrical handhole
801104	40	EA	812	Furnish and install sign support 4" x 4"
813014	18	SF	813	Install ground mounted signs
813015	68	SF	813	Install overhead sign for signals
800000	15	EA	814	Furnish and install 12 in. standard polycarbonate traffic signal head section
800000	3	EA	814	Furnish and install 12 in. optically programed traffic signal head section
862102	220	LF	815	Furnish and install sawcut for signal
865001	2	EA	817	Furnish and install pushbutton and sign
800000	4	EA	814	Furnish and install 12" pedestrian traffic signal head section

WIRING DIAGRAM



PHASE SEQUENCE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 AND 5	←G	←G	R	R	←G	←G	R	R	R	R	R	R	R	R	DW	DW
1 AND 5 CHANGE TO 1 AND 6, AND 2 AND 6																
PHASE 1 AND 6	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW
1 AND 6 CHANGE	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 AND 5	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	DW	DW
2 AND 5 CHANGE	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 AND 6	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	WK	WK
PHASE 2 AND 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	FL/DW	FL/DW
PHASE 4 AND 8	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	DW	DW
4 AND 8 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
ALT PHASE 4 AND 8	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	WK	WK
PED CLEARANCE	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	FL/DW	FL/DW
4 AND 8 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING	FL/R	FL/R	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK
OPERATION																

STAGE III



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION

MD 2 (SOLOMON'S ISLAND ROAD)
AND SOUTHDOWN ROAD

DRAWN BY: A.FORNARO

CHECKED BY: D.PETERS

SCALE: NONE

DATE: OCTOBER, 1999

F.A.P. NO.

S.H.A. NO.

COUNTY:

LOG MILE:

GI NO.

1817 A

T.I.M.S. NO.

SHEET NO.

OF



SABRA, WANG & ASSOCIATES, INC.
1606 JOH. AVENUE
SUITE 100
BALTIMORE, MD 21227
(410) 737-8584